

HOWREY  
SIMON  
ARNOLD  
& WHITE

**HOWREY**  
ATTORNEYS AT LAW

750 BERING DRIVE  
HOUSTON, TX 77057-2198  
PHONE 713.787.1400  
FAX 713.787.1440  
A LIMITED LIABILITY PARTNERSHIP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#10/B  
6/7/02  
1C

In re Application of:  
MAITLAND, et al.

Serial No.: 09/508,874

Filed: 8 June, 2000

For: ELECTRICALLY CONDUCTIVE NON-AQUEOUS WELLBORE FLUIDS

Group Art Unit: 1712

Examiner: P. Tucker

Atty. Dkt. No.: 11836.0689.PCUS00

**RESPONSE TO OFFICE ACTION**

RECEIVED

JUN 06 2002

1C 1700

EXPRESS MAIL MAILING LABEL

EL830941375US

NUMBER

DATE OF DEPOSIT

I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington D.C. 20231.

*Bacchus Sofia*  
Signature

Commissioner for Patents  
Washington, D.C. 20231

In response to the Office Action dated 30 January 2002, Applicants hereby request the following:

Please make the following amendments:

**IN THE CLAIMS:**

*B1*  
22. (Amended) A wellbore fluid of the water-in-oil emulsion type useful for electrical well-logging comprising a discontinuous aqueous or brine phase, solids, and having a non-aqueous continuous liquid phase that comprises a polar organic liquid POL which exhibits a dielectric constant of at least about 5.0 and a Hildebrand Solubility Parameter of at least about 17 ( $\text{J cm}^{-3}\right)^{1/2}$  so that the liquid phase exhibits an electrical conductivity of not less than  $10 \mu\text{S m}^{-1}$  at 1 kHz.